



PATENT
ATTORNEY DOCKET NO.: 056921-5137

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION of:

DAVIS et al.

Application No.: 09/869,925

Filed: July 9, 2001

FOR: COLCHINOL DERIVATIVES AS
VASCULAR DAMAGING AGENTS

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) Group Art Unit: 1653
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) Examiner: Lukton, David
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Commissioner for Patents
U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Date: September 8, 2003

Sir:

INFORMATION DISCLOSURE STATEMENT

Citation of Related U.S. Patent Applications

The Examiner's attention is directed to the following related co-pending U.S. patent applications:

Examiner's Initials	Inventor	U.S. Serial No.	U.S. Filing Date	PCT Publication No.	PCT Publication Date
	Davis et al.	09/869,925	08/23/2001	WO 00/40529	July 13, 2000
	Dougherty	09/477,805 USP 6,423,753	01/05/2000	WO 99/02166	Jan. 21, 1999
	Arnould et al.	10/332,129	01/06/03	WO 02/04434	Jan. 17, 2002
	Arnould	10/332,271	01/07/2003	WO 02/08213	Jan. 31, 2002

A copy of the specification and claims for each application, either in the form of a U.S. patent issued on that application and/or the published PCT application from which such application was filed, has previously been provided or is being filed herewith.

PLEASE DO NOT PRINT the above information on the patent resulting from the subject application.

Consideration of each listed application is earnestly solicited since unpublished patent applications are contemplated as IDS material; see the exception in Rule 98(a)(2)(iii) and note the penultimate sentence of MPEP 609.

Further, in keeping with MPEP 609, Subsec. C(2), 2nd para., line 10 to end of the paragraph (especially note lines 18-25) PLEASE RETURN A COPY OF THIS LETTER with the Examiner's initials adjacent each above listing so that applicant will know that each listed application has been considered as required by PTO policy.

Citation of Documents

Attached is a Form PTO-1449 listing the enclosed documents.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no certification under 37 CFR §1.97(e) or fee under 37 CFR §1.17(p) is required.

This Information Disclosure Statement is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

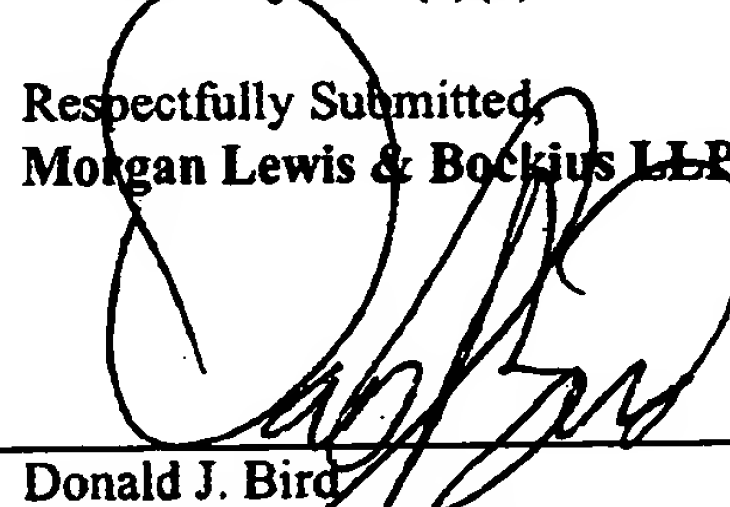
Consideration of the foregoing and enclosures plus the return of a copy of the herewith filed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 along with an early action on the merits of this application are earnestly solicited.

Except for issue fees payable under 37 C.F.R. §1.18, the Director is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** -in accordance with 37 C.F.R. §1.136(a)(3).

Respectfully Submitted,
Morgan Lewis & Bockius LLP

Date: September 8, 2003
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FORM PTO-1449 (modified) To: U.S. Department of Commerce Patent and Trademark Office				Attorney Docket No., 056291-5137		Client Ref. Z70457-1P US		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicant: Davis et al.				
Date: September 8, 2003				Page 1 of 9		Examiner: Lukton, David		
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U.S. PATENT DOCUMENTS								
Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)		
	AR	5,760,092	Timashef et al.					
	BR	5,843,910	Bombardelli et al.					
	CR	5,561,122	Pettit					
	DR	6,423,753 B1	Dougherty					
FOREIGN PATENT DOCUMENTS								
	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
	ER	4.685 M	France	Roussel-Uclaf				
*	FR	97/47577	WIPO	Bombardelli				
*	GR	99/02166	WIPO	Dougherty				
	HR	00/48606 A1	WIPO	Pero et al.				
	IR	39-19634	Japan	Nakamura			X	
	JR	39-19635	Japan	Nakamura			X	
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)								
KR	Abu Zarga et al., "New Natural Dibenzocycloheptylamine Alkaloids": A Possible Catabolic Route for the Colchicine Alkaloids", J. Nat. Prod., (1991), 54(4), 936-940							
LR	Al-Tel et al., "New Natural Colchicinoids: Indications of Two Possible Catabolic Routes for the Colchicine Alkaloids", J. Nat. Prod., (1990) 53 (3), 623-629							
MR	Banwell et al., "Total Syntheses of the Structures Assigned to Salimine and Jerusalemine, Alkaloids from <i>Colchicum decaisnei</i> Boiss. (Liliaceae)", J. Chem. Soc., Chem. Commun., (1994) (22) 2647-2649							
NR	Banwell, et al., "Synthesis and Tubulin-Binding Properties of Some AC- and ABC-Ring Analogues of Alcolcolchicine", Aust J Chem., (1992), 45, 1967-1982							
OR	Battersby et al., "Biosynthesis. Part 26 ¹ . Synthetic Studies on Structural Modification of Late Biosynthetic Precursors for Colchicine", J. Chem. Soc., Perkin Trans 1, (1983), (12), 3053-3063							
PR	Boger et al., "Thermal Reactions of Cyclopropanone Ketals. Application of . . . Total Synthesis of Colchicine", J. Am. Chem. Soc., (1986) (108 (21), 6713-6719							
QR	Boyé et al. "185. Deaminocolchinyll Methyl Ether: Synthesis from . . . Effects of Deaminocolchinyll Methyl Ether and Dehydro Analogs", Helv. Chem. Acta, (1989), 72 (8), 1690-1696							
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AR	3,442,953	05/1969	Muller et al.			
BR	5,880,160	03/1999	Bombardelli et al.			
CR	5,973,204	10/1999	Bombardelli			

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						Enclosed	No	Enclose	No
	DR	00/48606 A1	08/2000	WIPO	Pero et al.				
	ER	02/04434	01/2002	WIPO	Arnould et al.				
	FR	02/08213	01/2002	WIPO	Arnould				

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MR	Dilger et al., "Arbeitsvorschriften und Megwerte Procedures and Data Formaldehyd-O-oxid und Colchicine: ein eleganter Zugang zu Allocolcicinen", J. Prakt Chem./Chem-Ztg, (1998), 340 (5), 468-471 (in German)	x			x
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	AR	6,080,739	06/2000	Bombardelli				
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	GR	Fernholz, "Über die Umlagerung des Colchicins mit Natriumalkoholat und die Struktur des Ringes C ¹ ", Justus Liebigs Ann. Chem., CODEN: JLACBF, 568, (1950), 63-82						
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	MR	Hastie, "Spectroscopic and Kinetic Features of Alcolcolchicine Binding to Tubulin", Biochemistry, (1989), 28 (19), 7753-7760						
	NR	Hrbek et al., "Circular Dichroism of Alkaloids of Colchicine Type And Their Derivatives", Collect. Czech. Chem. Commun., (1982), 47 (8), 2258-2279						
	OR	Iorio, "Contraction of the Tropolonic Ring of Colchicine by Hydrogen Peroxide Oxidation", Heterocycles, (1984), 22 (10), 2207-2211						
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	GR	Izv Akad Nauk Turkm SSR, Ser Fiz-Tekh, Khim Geol Nauk, (1976), (1), 70-73					x	x
	HR	Kiselev et al., "Benzenoid Rearrangement of Colchicine by the Action of Ethylene Glycol", Zh. Org. Khim., (1977), 13 (11), 2337-2342 (in Russian) (English translation attached)						
	IR	Kiselev et al., "Derivatives of Aminocolchicide" Obshch. Khim., (1970), 40 (4), 914-915 (in Russian, English translation attached)						
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	KR	Kita et al., "Non-phenolic oxidative coupling of phenol ether derivatives using phenyliodine (III) bis(trifluoroacetate)", Chem. Commun. (Cambridge), (1996) (12), 1481-1482						
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	NR	Medrano, "Roles of Colchicine Rings B and C in the Binding Process to Tubulin", Biochemistry, (1989), 28 (13), 5589-5599						
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KR	Perez-Ramirez et al., "Cosolvent Modulation of the Tubulin-Colchicine GTPase-Activating Conformational Change: Strength of the Enzymatic Activity", Biochemistry, (1994), 33 (20), 6262-6267								
LR	Perez-Ramirez et al., "Linkages in Tubulin-Colchicine Functions: The Role of Ring C (C') Oxygens and Ring B in the Controls", Biochemistry, (1998), 37 (6), 1646-1661								
MR	Perez-Ramirez et al., "Stoichiometric and Substoichiometric Inhibition of Tubulin Self-Assembly by Colchicine Analogues", Biochemistry, (1996), 35 (10), 3277-3285								
NR	Perez-Ramirez et al., "The Colchicine-Induced GTPase Activity of Tubulin: State of the Product. Activation by Microtubule-Promoting Cosolvents," Biochemistry, (1994), 33 (20), 6253-6261								

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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)					
GR	Powell et al., "Role of Ring C Substituents Related to Allocolchicine on Antitubulin Action", Med. Chem. Res., (1996), 164-173				
HR	Prakash et al., "Aging of Tubulin at Neutral pH: Stabilization by Colchicine and its Analogues", Archives of Biochem & Biophysics (1992), 295 (1), 146-152				
IR	Pyles et al., "Role of the B-Ring Substituent in the Fluorescence of Colchicinoid-Tubulin and Allocolchicinoid-Tubulin Complexes", Biochemistry, (1992), 31 (31), 7086-93				
JR	Rossi et al., "Structural Analysis of the Substoichiometric and Stoichiometric Microtubule-Inhibiting Biphenyl Analogues of Colchicine", Biochemistry, (1996), 35 (10), 3286-3289				
KR	Schönharting et al., "Metabolic Transformation of Colchicine I. The Oxidative Formation of Products from Colchicine in the Udenfriend System", Hoppe-Seyler's Z. Physiol.Chem., (1973), 354 (1), 421-436				x
LR	Shearwin et al., "Effect of Colchicine Analogues on the Dissociation of $\alpha\beta$ into Subunits: The Locus of Colchicine Binding", Biochemistry, (1994), 33 (4), 894-901				
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HR	Staretz et al., "Synthesis, Photochemical Decomposition, and Tubulin Binding of 10-Azido-10-demethoxycolchicine and 9-Azido-9-demethoxyisocolchicine", J. Org. Chem., (1991) 56 (1), 428-432				
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MR	Ward et al., "Energy Transfer Studies of the Distance between the Colchicine, Ruthenium Red, and BisANS Binding Sites on Calf Brain Tubulin", Biochemistry, (1994), 33 (39), 11900-11908				
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HR	Wosikowski et al., "Identification of Epidermal Growth Factor Receptor and c-erbB2 Pathway Inhibitors by Correlation With Gene Expression Patterns", J. Natl. Cancer Inst., (1997), 89 (20) 1505-1515				
IR	Xie et al., "Synthesis of three new Schizandrin Analogues", Chin. Chem. Lett., (1998) 9 (7) 631-634				
JR	Yusupov et al., "A Study of 2-Demethylalcolchicine and Its Derivatives", Khim. Pri. Soedin, (1973), (2), 194-196 (in Russian) (English translation attached)				
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Examiner	Date Considered:
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FORM PTO-1449 (modified) To: U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 056291-5137		Client Ref. Z70457-1P US					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Davis et al.							
		Appln. No.: 09/869,925							
		Filing Date: July 9, 2001							
		Examiner: Lukton, David		Group Art Unit: 1653					
Date: September 8, 2003 Page 9 of 9									
U.S. PATENT DOCUMENTS									
Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)		
	AR								
	BR								
	CR								
FOREIGN PATENT DOCUMENTS						English Abstract		Translation Readily Available	
		Document Number	Date MM/YYYY	Country	Inventor Name				
	DR								
	ER								
	FR								
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)									
	OR	Kang et al., "n-acetylcolchidinol O-methyl ether and thiocolchicine, potent nalogos of colchicine modified in the C-ring" Journal of Biological Chemistry, Vol. 265, No. 18, June 25, 1990, pp. 10255-10259, XP002081868, ISSN: 0021-9258							
	GR	Timbekov et al., "Mass Spectrometric Study of Alkaloids of the Homoaprophine, Homomorpine and Allocolchicine Series", "Tezisy Dokl. = Sov.-Indiiskii Simp. Khim. Prir. Soedin., 5th (1978), p. 85 (Chemical Abstracts attached)							
	PR	Mackay et al., "Structures of Colchicine Analogues. I. Allocolchicine", Acta Cryst, (1989), C45, 795-799							
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